

## Full Stack Engineer: Task to Perform for interview shortlisting

### Problem Statement:

We are building a movie ticket booking application, similar to [www.bookmyshow.com](http://www.bookmyshow.com) and it is expected to support both web and mobile based access. The application end users (customers) will use the application to book movie tickets of their preference.

### Basic Expectation: (For Jr Engineer Roles and above)

- Define and document the end user (customers) specific usecases while booking a movie ticket
- Define a design document for API's to be created to serve the usecases (Get, POST, PUT, Delete)

### Advanced Expectation: (For Sr Engineer Roles and above)

- Assume a worst-case load of 10000 users trying to book the seats for each movie at a given time
- Define and document the performance scenarios which will be considered for usecase

### Techy Expectation: (For Architecture Roles)

- Define scenarios considered for the architecture
- Define performance considerations for the architecture
- Document the deployment architecture using microservices with AWS (or) Google Cloud Services

### Submission criteria:

Email us back with the following

1. We are expecting a design approach document in preferred .PDF format
2. No code is required
3. No database schema design is required